PTO/SB/21 (09-04) Approved for use through 07/31/2006. OMB 0651-0031
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE ne Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number. Application Number 10/521.889 TRANSMITTAL: Filing Date May 25, 2005 First Named Inventor RECEIVED **FORM** William ROBBINS Art Unit 2133 <del>JUN 2-9-2005</del> **Examiner Name** Unassigned (to be used for all correspondence after initial filing) Attorney Docket Number 0903-003 Technology Center 2700 Total Number of Pages in This Submission **ENCLOSURES** (Check all that apply) After Allowance Communication to TC Fee Transmittal Form Drawing(s) Appeal Communication to Board Licensing-related Papers Fee Attached of Appeals and Interferences Appeal Communication to TC Petition Amendment/Reply (Appeal Notice, Brief, Reply Brief) Petition to Convert to a **Provisional Application** Proprietary Information After Final Power of Attorney, Revocation Status Letter Affidavits/declaration(s) Change of Correspondence Address Other Enclosure(s) (please Identify Terminal Disclaimer **Extension of Time Request** below): Stamped Return Receipt Postcard Request for Refund **Express Abandonment Request** CD, Number of CD(s) Information Disclosure Statement Landscape Table on CD Certified Copy of Priority Remarks Document(s) Reply to Missing Parts/ Incomplete Application Reply to Missing Parts under 37 CFR 1.52 or 1.53 SIGNATURE OF APPLICANT, ATTORNEY, OR AGENT Firm Name Potomac Patent Group, PLLC Signature Printed name Steven M. duBois Date Reg. No. June 23, 2005 35,023 **CERTIFICATE OF TRANSMISSION/MAILING** I hereby certify that this correspondence is being facsimile transmitted to the USPTO or deposited with the United States Postal Service with sufficient postage as first class mail in an envelope addressed to: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450 on the date shown below: Signature

This collection of information is required by 37 CFR 1.5. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.11 and 1.14. This collection is estimated to 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

Steven M. duBois

Typed or printed name

Date

June 23, 2005



## IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

| In re Patent Application of | )                      |
|-----------------------------|------------------------|
| William ROBBINS et al.      | ) Group Art Unit: 2133 |
|                             | ) Examiner: Unassigned |
| Application No.: 10/521,889 | RECEIVED               |
| Filed: May 25, 2005         | ,                      |
| For: PROCESSOR ARRAY        | ) JUN 2 9 2005         |
|                             | Technology Center 2100 |

## **INFORMATION DISCLOSURE STATEMENT UNDER 37 CFR 1.97(b)**

Commissioner for Patents Alexandria, VA 22313-1450

Sir:

Applicants submit herewith PTO/SB/08A and PTO/SB/08B - Information Disclosure Statement together with any required copies of patents, publications or other information of which Applicants are aware, which Applicants believe may be material to the examination of this application and for which there may be a duty to disclose in accordance with 37 CFR 1.56.

Copies of the foreign search reports, in which these documents were cited is also attached. It is noted that US 2002/0174318 A1, is an equivalent of GB 2348976 A, which was cited in the Great Britain Search Report dated April 1, 2005.

This Information Disclosure Statement is submitted before the mailing date of a first Office Action on the merits and therefore no fee is required.

It is requested that the information disclosed herein be made of record in this application.

Respectfully submitted,

POTOMAC PATENT GROUP PLLC

By:

Steven M. duBois

Registration No. 35,023

Date: June 23, 2005

Potomac Patent Group, PLLC P.O. Box 270 Fredericksburg, VA 22404 (540) 361-1863

PTO/SB/08A (08-03)
Approved for use through 07/31/2006. OMB 0651-0031
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE
or the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

INFORMATION DISCLOSURE

Substitute for form 1449/PTO

Sheet 1

STATEMENT BY APPLICANT (Use as many sheets as necessary)

Complete if Known Application Number 10/521,889 Filing Date May 25, 2005 First Named Inventor William ROBBINS Art Unit 2133 **Examiner Name** Unassigned Attorney Docket Number 0903-003

|                       |              |                                                          |                             | DOCUMENTS                                          |                                                                                 |
|-----------------------|--------------|----------------------------------------------------------|-----------------------------|----------------------------------------------------|---------------------------------------------------------------------------------|
| Examiner<br>Initials* | Cite<br>No.1 | Document Number  Number-Kind Code <sup>2 (f known)</sup> | Publication Date MM-DD-YYYY | Name of Patentee or<br>Applicant of Cited Document | Pages, Columns, Lines, Where<br>Relevant Passages or Relevant<br>Figures Appear |
|                       |              | <sup>US-</sup> 5,253,308                                 | 10/12/1993                  | JOHNSON                                            |                                                                                 |
|                       |              | <sup>US-</sup> 4,601,031                                 | 07/15/1986                  | WALKER et al.                                      |                                                                                 |
|                       |              | <sup>US-</sup> 4,603,404                                 | 07/29/1986                  | YAMAUCHI et al.                                    |                                                                                 |
|                       |              | <sup>US-</sup> 5,795,797                                 | 08/18/1998                  | CHESTER et al.                                     | RECEIVED                                                                        |
|                       |              | <sup>US-</sup> 4,858,233                                 | 08/15/1989                  | DYSON et al.                                       | · ·                                                                             |
|                       |              | <sup>US-</sup> 2002/0174318 A1                           | 11/21/2002                  | STUTTARD et al.                                    | JUN 2 9 2005                                                                    |
|                       |              | <sup>US-</sup> 5,796,937                                 | 08/18/1998                  | KIZUKA                                             |                                                                                 |
|                       |              | US-                                                      |                             |                                                    | Technology Center 2100                                                          |
|                       |              | US-                                                      |                             |                                                    |                                                                                 |
| -                     |              | US-                                                      |                             |                                                    |                                                                                 |

| Examiner Initials* | Cite<br>No.1 | Foreign Patent Document                                                        | OREIGN PATENT DOCU<br>Publication<br>Date | Name of Patentee or<br>Applicant of Cited Document | Pages, Columns, Lines,<br>Where Relevant Passages |    |
|--------------------|--------------|--------------------------------------------------------------------------------|-------------------------------------------|----------------------------------------------------|---------------------------------------------------|----|
|                    |              | Country Code <sup>3</sup> Number <sup>4</sup> Kind Code <sup>5</sup> (# known) | MM-DD-YYYY                                |                                                    | Or Relevant Figures Appear                        | Τ6 |
|                    |              | WO 01/02960 A1                                                                 | 01/11/2001                                | CLERMIDY et al.                                    |                                                   |    |
|                    |              | WO 02/50624 A2                                                                 | 06/27/2002                                | CLAYDON et al.                                     |                                                   | Г  |
|                    |              | WO 91/11770                                                                    | 08/08/1991                                | LEGENDI et al.                                     |                                                   | Г  |
|                    |              | EP 0 180 212 A2                                                                | 05/07/1986                                | EATON et al.                                       |                                                   |    |
|                    |              |                                                                                |                                           |                                                    |                                                   |    |
|                    |              |                                                                                |                                           |                                                    |                                                   |    |

|           |   | _          |  |
|-----------|---|------------|--|
| Examiner  |   | Date       |  |
| Signature | • | Considered |  |

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. <sup>1</sup>Applicant's unique citation designation number (optional). <sup>2</sup>See Kinds Codes of USPTO Patent Documents at <a href="https://www.uspto.gov">www.uspto.gov</a> or MPEP 901.04. <sup>3</sup> Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). <sup>4</sup> For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. <sup>5</sup>Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. <sup>5</sup>Applicant is to place a check mark here if English language

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. **SEND** TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 (1-800-786-9199) and select option 2.

JUN 2 4 2005 1

PTO/SB/08B (08-03)
Approved for use through 07/31/2006. OMB 0651-0031
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number

| Substitute for form 1449/PTO      |                        |               | Complete if Known    |                        |              |                        |
|-----------------------------------|------------------------|---------------|----------------------|------------------------|--------------|------------------------|
|                                   |                        |               |                      | Application Number     | 10/521,889   |                        |
| INFORMATION DISCLOSURE            |                        |               |                      | Filing Date            | May 25, 2005 |                        |
| STA                               | STATEMENT BY APPLICANT |               | First Named Inventor | William ROBBINS        | RECEIVED     |                        |
|                                   |                        |               | nenegand             | Art Unit               | 2133         |                        |
| (Use as many sheets as necessary) |                        | Examiner Name | Unassigned           | JUN 2 9 2005           |              |                        |
| Sheet                             | 2                      | of            | 3                    | Attorney Docket Number | 0903-003     | Technology Center 2100 |

|                       |                          | NON PATENT LITERATURE DOCUMENTS                                                                                                                                                                                                                                 |                |
|-----------------------|--------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|
| Examiner<br>Initials* | Cite<br>No. <sup>1</sup> | Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published. | T <sup>2</sup> |
|                       | 1                        | Popli, S. P., et al., "A Reconfigurable VLSI Array for Reliability and Yield Enhancement," Proceedings of the International Conference on Systolic Arrays, 1988, pp. 631-642.                                                                                   |                |
|                       | 2                        | John, L. K., et al., "A Dynamically Reconfigurable Interconnect for Array Processors," IEEE Transactions on Very Large Scale Integration (VLSI) Systems, Vol. 6, No. 1,                                                                                         |                |
|                       |                          | March 1998, pp. 150-157.                                                                                                                                                                                                                                        |                |
|                       | 3                        | Shigei, N., et al., "On Efficient Spare Arrangements and an Algorithm with Relocating Spares for Reconfiguring Processor Arrays," IEICE Transactions on Fundamentals of                                                                                         |                |
|                       |                          | Electronics, Communications and Computer Sciences, Vol. E80-A, No. 6, June 1997, pp. 988-995.                                                                                                                                                                   |                |
|                       | 4                        | Schmidt, U., et al., "Datawave: A Single-Chip Multiprocessor for Video Applications," IEEE Micro, Vol. 11, No. 3, June 1991, pp. 22-25, 88-94.                                                                                                                  |                |
|                       | 5                        | Chean, M., et al., "A Taxonomy of Reconfiguration Techniques for Fault-Tolerant Processor Arrays," Computer, IEEE Computer Society, Vol. 23, No. 1, January 1990, pp. 55-69.                                                                                    |                |
|                       | 6                        | Kamiura, N., et al., "A Repairable and Diagnosable Cellular Array on Multiple-Valued Logic," Proceedings of the 23rd International Symposium on Multiple-Valued Logic, 1993,                                                                                    |                |
|                       |                          | pp. 92-97.                                                                                                                                                                                                                                                      |                |
|                       | 7                        | LaForge, L., "Extremally Fault Tolerant Arrays," Proceedings: International Conference on Wafer Scale Integration, 1989, pp. 365-378.                                                                                                                           |                |

| Examiner  | Date       |  |
|-----------|------------|--|
| Signature | Considered |  |

<sup>\*</sup>EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

Applicant's unique citation designation number (optional). 2 Applicant is to place a check mark here if English language Translation is attached. This collection of information is required by 37 CFR 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO:

JUN 2 4 2005 45

PTO/SB/08B (08-03)
Approved for use through 07/31/2006. OMB 0651-0031
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

0.5. Patent and Trademark Office, 0.5. DEPARTMENT OF COMMERCE 0.5. Patent and Trademark Office, 0.5. DEPARTMENT OF COMMERCE Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Complete if Known e for form 1449/PTO **Application Number** 10/521,889 INFORMATION DISCLOSURE Filing Date May 25, 2005 STATEMENT BY APPLICANT First Named Inventor William ROBBINS Art Unit 2133 (Use as many sheets as necessary) **Examiner Name** Unassigned Technology Center 2100 Attorney Docket Number Sheet 3 3 0903-003 of

|                       |                          | NON PATENT LITERATURE DOCUMENTS                                                                                                                                                                                                                                 |                |
|-----------------------|--------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|
| Examiner<br>Initials* | Cite<br>No. <sup>1</sup> | Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published. | T <sup>2</sup> |
|                       | 8                        | International Search Report of PCT/GB03/02772, dated November 30, 2004.                                                                                                                                                                                         |                |
|                       | 9                        | Great Britain Search Report of Application No. GB 0216880.5, dated January 28, 2003.                                                                                                                                                                            |                |
|                       | 10                       | Great Britain Search Report of Application No. GB 0216880.5, dated October 9, 2003.                                                                                                                                                                             |                |
|                       | 11                       | Great Britain Search Report of Application No. GB 0216880.5, dated April 1, 2005.                                                                                                                                                                               |                |
|                       |                          |                                                                                                                                                                                                                                                                 |                |
|                       |                          | ·                                                                                                                                                                                                                                                               |                |
|                       |                          |                                                                                                                                                                                                                                                                 |                |
|                       |                          |                                                                                                                                                                                                                                                                 |                |
|                       |                          |                                                                                                                                                                                                                                                                 |                |
|                       |                          |                                                                                                                                                                                                                                                                 |                |

| Examiner  | Date       |  |
|-----------|------------|--|
| Signature | Considered |  |
|           |            |  |

<sup>\*</sup>EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

<sup>1</sup> Applicant's unique citation designation number (optional). 2 Applicant is to place a check mark here if English language Translation is attached. This collection of information is required by 37 CFR 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO:

Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.